

Docket No. 270767US0PCT



JC06 Rec'd PCT/PTO 25 AUG 2005
MAIL STOP PCT

PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Marc DELAUNAY, et al.

SERIAL NO: 10/532,500

GAU:

FILED: April 25, 2005

EXAMINER:

FOR: PROCESSES FOR THE SYNTHESIS AND GROWTH OF METAL CARBIDE NANORODS ON A SUBSTRATE, SUBSTRATES THUS OBTAINED AND THEIR APPLICATIONS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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AUG 25 2005

SHEET 1 OF 1

Form PTO 1449
(Modified)DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

270767US0PCT

SERIAL NO.

10/532,500

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Marc DELAUNAY, et al.

FILING DATE

April 25, 2005

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,346,303	02/12/02	SHIH, Han-Chang et al.			
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AG	1 129 990	09/05/01	EP		NO
	AH	98 00777	07/30/99	FR(Equivalent of US 6,319,372)		NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

AI	YOUNG, Joon Yoon et al.: "Growth control of single and multi-walled carbon nanotubes by thin film catalyst", Chemical Physics Letters, Vol. 366, No. 1-2, pages 109-114, November 25, 2002. XP-002255586
AJ	CHEN, X. H. et al.: "The formation conditions of carbon nanotubes array based on FeNi alloy island films", Thin Solid Films, Vol. 339, No. 1-2, pages 6-9, February 8, 1999. XP-002255587
AK	YOUNG, Chul Choi et al.: "Low temperature synthesis of carbon nanotubes by microwave plasma-enhanced chemical vapor deposition", Synthetic Metals, Vol. 108, pages 159-163, 2000. XP-000957661
AL	LIN, P. H. et al.: "Low Temperature Growth of Aligned Carbon Nanotubes in Large Area", International Journal of Modern Physics B, Vol. 16, No. 6 & 7, pages 853-859, March 20, 2002. XP009017872
AM	FLAHAUT, E.: "Synthesis of single-walled carbon nanotube-Co-MgO composite powders and extraction of the nanotubes", J. Mater. Chem., Vol. 10, pages 249-252, 2000.
AN	ZHU, Y. Q.: "Morphology, structure and growth of WS ₂ nanotubes", J. Mater. Chem., Vol. 10, pages 2570-2577, 2000.
AO	BOWER, Chris et al.: "Plasma-induced alignment of carbon nanotubes", Applied Physics Letters, Vol. 77, No. 6, pages 830-832, August 7, 2000.
AP	ZHANG, W.D.: "Growth of vertically aligned carbon-nanotube array on large area of quartz plates by chemical vapor deposition", Appl. Phys. A, Vol. 74, pages 419-422, 2002.
AQ	HADOBAS, K. et al.: "Reflection properties of nanostructure-arrayed silicon surfaces", Nanotechnology, Vol. 11, pages 161-164, 2000.
AR	REN, Z. F. et al.: "Growth of a single freestanding multiwall carbon nanotube on each nanonickel dot", Applied Physics Letters, Vol. 75, No. 8, pages 1086-1088, August 23, 1999.
AS	TEO, K. B. K. et al.: "Uniform patterned growth of carbon nanotubes without surface carbon", Applied Physics Letters, Vol. 79, No. 10, pages 1534-1536, September 3, 2001.
AT	FAN, Shoushan et al.: "Carbon nanotube arrays on silicon substrates and their possible application", Physica E, Vol. 8, pages 179-183, 2000.
AU	CHHOWALLA, M. et al.: "Growth process conditions of vertically aligned carbon nanotubes using plasma enhanced chemical vapor deposition", Journal of Applied Physics, Vol. 90, No. 10, pages 5308-5317, November 15, 2001.
AV	LI, J. et al.: "Highly-ordered carbon nanotube arrays for electronics applications", Applied Physics Letters, Vol. 75, No. 3, pages 367-369, July 19, 1999.
AW	DELAUNAY, M.: "Electron cyclotron resonance plasma ion source for material depositions", Review of Scientific Instruments, Vol. 69, No. 6, pages 2320-2324, June 1998.

☐ Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. PCT Application Serial No.: 10/532,500
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STATEMENT OF RELEVANCY

- 1) References AA, AG and AI-AL have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) Reference ____ have been cited in the corresponding ____ Search Report. A copy of this reference is being submitted herewith.
- 3) References AH and AM-AW are discussed in the specification. A copy of these references is being submitted here with.
- 4) Reference ____ is additional prior art known to Applicant. A copy of these references is being submitted herewith.